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TO AMEMBASSY MOSCOW 0000  
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UNCLAS STATE 212646 SECTION 1 OF 6

E.O. 11652: N/A  
TAGS: SENV, UR, OTRA  
SUBJ: US-USSR ENVIRONMENTAL AGREEMENT: JOINT COMMITTEE  
MEETING

1. EMBASSY IS REQUESTED TO TRANSMIT FOLLOWING TEXT OF  
REPORT ON ENVIRONMENTAL AGREEMENT COOPERATION TO HYDROMET  
IMMEDIATELY. ADDITIONAL COPIES FOLLOW BY POUCH, BUT IT IS  
IMPORTANT TO GET REPORT IN SOVIET HANDS AT EARLIEST POSSIBLE  
MOMENT TO ALLOW MAXIMUM TIME FOR CONSIDERATION PRIOR TO  
THEIR DEPARTURE FOR U.S. AS EMBASSY AWARE, DETAILED REPORT  
ON FIRST YEAR'S WORK WAS PROPOSED BY SOVIET SIDE DURING  
DR. IZRAEL'S VISIT JULY 1973. WE PROPOSED DRAFTING IN  
ADVANCE, BUT DR. IZRAEL TOLD EMBASSY HE PREFERRED WAIT FOR  
DRAFTING UNTIL JOINT COMMITTEE MEETING. WE REPLIED THAT  
WE THOUGHT IT IMPRACTICAL TO WAIT FOR MEETING TO BEGIN  
DRAFTING. CONSEQUENTLY ATTACHED US DOCUMENT IS DRAFT, WHICH  
WE HOPE SOVIET SIDE WILL CONSIDER AND WORK ON PRIOR TO  
NOV. 13. IT IS BASED ON REPORTS SUBMITTED BY INDIVIDUAL  
PROJECT CHAIRMEN (WITH USE OF LANGUAGE FROM ALREADY ADOPTED  
PROTOCOLS WHERE POSSIBLE), AND GOES INTO SOME DETAIL ABOUT  
WORK IN EACH AREA IN ORDER TO MEET SOVIET WISH FOR DETAILED  
DOCUMENT. OUR HOPE IS THAT SOVIET SIDE WILL USE THIS AS  
BASIS AND WILL BRING FULL DRAFT WITH THEIR ADDITIONS AND  
CHANGES FOR CONSIDERATION AT MEETING. (DRAFT BEING  
RESUBMITTED TO US PROJECT CHAIRMEN FOR COMMENTS, SO THERE  
COULD BE SOME US CHANGES.) TEXT FOLLOWS:

DRAFT

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*1 thru 6 of 6*  
*1. LFS*  
*2. Ex-5 file*  
*Environmental Agreement*  
*Joint Commission Meeting*

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REPORT ON THE IMPLEMENTATION OF THE US-USSR  
AGREEMENT ON COOPERATION IN THE FIELD OF  
ENVIRONMENTAL PROTECTION OF MAY 23, 1972

AT ITS SECOND ANNUAL MEETING, HELD IN WASHINGTON, DC, NOVEMBER 13-16, 1973, THE US-USSR JOINT COMMITTEE ON COOPERATION IN THE FIELD OF ENVIRONMENTAL PROTECTION ISSUED THE FOLLOWING REPORT ON WORK CARRIED OUT UNDER THE AGREEMENT OF MAY 23, 1972, AND THE MEMORANDUM OF IMPLEMENTATION ADOPTED AT THE FIRST ANNUAL MEETING OF THE JOINT COMMITTEE IN MOSCOW ON SEPTEMBER 21, 1972.

## I. AIR POLLUTION

## 1. AIR POLLUTION MODELING, INSTRUMENTATION AND MEASUREMENT METHODOLOGY

THE WORKING GROUP HAS EXCHANGED VISITS, DRAWN UP A DETAILED PROGRAM FOR FURTHER COOPERATION, AND HAS EXCHANGED A CONSIDERABLE AMOUNT OF DATA AND LITERATURE. THE DEPUTY PROJECT CHAIRMAN ON THE SOVIET SIDE, DR. A. S. ZAITSEV (MAIN GEOPHYSICAL OBSERVATORY, HYDROMETEOROLOGICAL SERVICE), LED A SOVIET DELEGATION TO THE UNITED STATES MAY 10-22, 1973. FOR DISCUSSIONS AND FAMILIARIZATION VISITS IN WASHINGTON, D.C., RESEARCH TRIANGLE PARK, NORTH CAROLINA, AND ST. LOUIS, MISSOURI. THE U.S. PROJECT CHAIRMAN, DR. HERBERT L. WISER (ENVIRONMENTAL PROTECTION AGENCY), LED THE RETURN DELEGATION TO THE USSR OCTOBER 13-28, 1973, FOR MEETINGS IN LENINGRAD AND MOSCOW AND VISITS ELSEWHERE. THE SOVIET SIDE WAS LED BY THE PROJECT CHAIRMAN, DR. M. E. BERLYAND (MAIN GEOPHYSICAL OBSERVATORY). IT HAS BEEN AGREED TO HOLD A THIRD MEETING IN THE USSR DURING THE SECOND QUARTER OF 1974.

THE WORK PROGRAM OF THE WORKING GROUP INCLUDES THE FOLLOWING:

AIR POLLUTION MODELING: THE MAIN TASK IS MODELING DEVELOPMENT AND EVALUATION, THEORETICAL AND EXPERIMENTAL, OF POLLUTANT DISPERSION FROM STATIONARY SOURCES, SINGLE

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AND MULTIPLE (INITIALLY SO<sub>2</sub> AND RELATED SULFUR COMPOUNDS AND CO ARE POLLUTANTS TO BE CONSIDERED). STUDIES ARE TO INCLUDE EMISSION PARAMETERS, METEOROLOGICAL CONDITIONS INCLUDING TOPOGRAPHY, AVERAGING TIMES, ETC., AND SUPPORTING STUDIES INCLUDING ENERGY BUDGET AND REACTION KINETICS.

INSTRUMENTATION AND MEASUREMENT METHODOLOGY: THE MAIN TASK IS THE DEVELOPMENT OF GUIDELINES FOR MEASUREMENT NETWORK INCLUDING MEASUREMENT METHODOLOGY, CHEMICAL ANALYTICAL METHODOLOGY, CALIBRATION AND QUALITY CONTROL, DATA ACQUISITION (AUTOMATIC REGISTRATION OF DATA) AND DATA VALIDATION AND REDUCTION. IDENTICAL STATIONS ARE TO BE SET UP IN ST. LOUIS AND LENINGRAD FOR JOINT COMPARISON OF DATA, DATA ANALYSES AND INSTRUMENTATION AND MEASUREMENT METHODOLOGY.

SPECIAL TOPICS: STUDIES ARE TO BE MADE IN PHOTOCHEMICAL PROCESSES, AEROSOL PHYSICS AND CHEMISTRY, SCAVENGING, AND SHORT-TERM FORECASTING.

## 2. STATIONARY SOURCE AIR POLLUTION CONTROL TECHNOLOGY

AT THE FIRST MEETING OF THE WORKING GROUP IN MOSCOW MARCH 19-29, 1973, IT WAS AGREED TO SEPARATE THE GROUP ON STATIONARY SOURCE AIR POLLUTION CONTROL TECHNOLOGY ENTIRELY FROM THE GROUP ON TRANSPORTATION SOURCE CONTROL TECHNOLOGY. THE SOVIET SIDE OF THE STATIONARY SOURCE GROUP WAS LED BY V. A. ANIKEYEV (CHIEF, ALL-UNION ASSOCIATION OF GAS PURIFICATION AND DUST CLEANING) AND THE U.S. SIDE BY RICHARD E. HARRINGTON (ENVIRONMENTAL PROTECTION AGENCY). IN THE PROTOCOL SIGNED ON MARCH 29, 1973, IT WAS AGREED THAT STUDIES AND THE EXCHANGE OF INFORMATION WOULD INCLUDE THE FOLLOWING SUBJECTS: SULFUR OXIDE PARTICULATES FROM THERMAL POWER PLANTS; THE CONTROL OF POLLUTION BY THE GASIFICATION OF COAL AND OIL; ALSO DEMETALLIZATION OF RESIDUAL FUEL OIL; ECONOMIC STUDIES OF DESULPHURIZING

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METHODS; PHYSIOCHEMICAL ANALYSIS OF COMPONENTS IN EMISSIONS FROM THE IRON AND STEEL INDUSTRY; ICE FOG CONTROL; CATALYTIC OXIDATION PROCESSES FOR SULFUR OXIDE CONTROL; CONTROL OF EMISSIONS FROM COKE OVENS; DESULFURIZATION AND ASH REMOVAL FROM COAL BY MECHANICAL CLEANING; IDENTIFICATION AND CONTROL OF EMISSIONS FROM COAL AND OIL CONVERSION PROCESSES. IN ACCORDANCE WITH THE PROTOCOL, THE U.S. WORKING GROUP HAS FURNISHED SEVERAL REPORTS, REFERENCES AND LITERATURE ON TOPICS SET FORTH IN THE PROTOCOL. THE U.S. WORKING GROUP ALSO CONDUCTED A SURVEY OF U.S. INDUSTRY INTEREST IN TRADE WITH THE SOVIET UNION IN THIS AREA, AND RECEIVED FORTY-FIVE EXPRESSIONS OF INTEREST, ABSTRACTS OF WHICH WERE SENT TO THE SOVIET PROJECT CHAIRMAN.

THE FIRST SOVIET VISIT TO THE UNITED STATES UNDER THIS PROJECT IS SCHEDULED TO BEGIN ON JANUARY 14, 1974, IN CONJUNCTION WITH A SYMPOSIUM ON PARTICULATES AGREED TO IN THE PROTOCOL.

### 3. TRANSPORTATION SOURCE AIR POLLUTION CONTROL TECHNOLOGY

AS NOTED ABOVE, THE FIRST MEETING OF THIS WORKING GROUP WAS HELD IN CONJUNCTION WITH THE STATIONARY SOURCES GROUP IN MOSCOW MARCH 19-29, 1973. THE U.S. SIDE WAS LED BY DR. KAY H. JONES (ENVIRONMENTAL PROTECTION AGENCY) AND THE SOVIET SIDE BY DR. A. A. FOMIN (MINISTRY OF CONSTRUCTION OF AGRICULTURAL AND TRACTOR MACHINERY OF THE USSR). A PROGRAM WAS AGREED UPON IN THE PROTOCOL OF MARCH 29 TO EXCHANGE INFORMATION ON CONTROL METHODS FOR REDUCING POLLUTION FROM TRANSPORTATION SOURCES, IN PARTICULAR AUTOMOBILES, SUCH METHODS TO INCLUDE BOTH SPECIFIC TECHNIQUES APPLICABLE TO INDIVIDUAL VEHICLES AND ALSO TRANSPORTATION PLANNING. THE FIRST PHASE OF THE EFFORT INVOLVES THE DEVELOPMENT OF COMPARABLE METHODS OF MEASURING POLLUTANT EMISSIONS ON WHICH TECHNOLOGY ASSESSMENTS CAN BE MADE. THE SOVIET SIDE IS CURRENTLY DEVELOPING EMISSIONS MEASUREMENT METHODOLOGY WHICH WILL THEN BE COMPARED WITH CURRENT U.S. TECHNIQUES.

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INFORMATION ON SEVERAL INDEPENDENT TECHNICAL PROBLEMS ASSOCIATED WITH AUTOMOBILE EMISSIONS MEASUREMENT AND CONTROL HAVE BEEN EXCHANGED. A FORMAL SYSTEM FOR ROUTINE SCREENING AND TRANSMITTAL OF PERTINENT U.S. LITERATURE ON THE SUBJECT IS UNDER DEVELOPMENT TO MEET THE PROVISIONS OF THE PROTOCOL.

THE FIRST VISIT OF THE SOVIET WORKING GROUP TO THE UNITED STATES IS SCHEDULED FOR THE SPRING OF 1974.

## II. WATER POLLUTION

THE JOINT WORKING GROUP ON WATER POLLUTION MET IN MOSCOW MAY 20-23, 1973, UNDER THE CO-CHAIRMANSHIP OF DR. JOHN BUCKLEY (ENVIRONMENTAL PROTECTION AGENCY) AND B. G. SHTEPA (DEPUTY MINISTER, USSR MINISTRY FOR RECLAMATION AND WATER MANAGEMENT). DETAILED PLANS FOR COOPERATION IN THE FOUR SUB-PROJECTS WERE AGREED UPON, AND TWO FURTHER VISITS HAVE BEEN MADE. A CONSIDERABLE AMOUNT OF DATA AND LITERATURE HAS BEEN FURNISHED. THE SECOND SESSION OF THE WORKING GROUP IS TO BE HELD IN WASHINGTON, D.C., DURING THE SECOND QUARTER OF 1974. WORK UNDER THE SUB-PROJECTS HAS PROCEEDED AS FOLLOWS:

STUDIES AND MODELING OF RIVER BASIN POLLUTION:  
A SOVIET GROUP LED BY V. R. LOZANSKY (DIRECTOR, ALL-UNION SCIENTIFIC RESEARCH INSTITUTE ON WATER PROTECTION (VNIIV)), USSR MINISTRY FOR RECLAMATION AND WATER MANAGEMENT) VISITED THE UNITED STATES SEPTEMBER 26-OCTOBER 9, 1973, WITH TRIPS TO PHILADELPHIA, CINCINNATI, NEW YORK AND WASHINGTON, D.C. THE U.S. SIDE WAS LED BY MARK PISANO (ENVIRONMENTAL PROTECTION AGENCY). THE GROUP AGREED UPON GOALS FOR FUTURE WORK WHICH ARE, BRIEFLY STATED, TO IMPROVE THE METHODOLOGY OF WATER PLANNING, TO GIVE EACH SIDE A THOROUGH UNDERSTANDING OF THE OTHER'S CURRENT PLANNING METHODOLOGY, IMPLEMENTATION AND ENFORCEMENT PROCEDURES AND PROBLEMS, AND TO BROADEN EACH SIDE'S PERSPECTIVE ON ITS OWN POLLUTION

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PROBLEMS. A WORK PROGRAM WAS PROPOSED IN WHICH THE FINAL  
STEP WOULD BE AN EXPERIMENT WITH EACH COUNTRY'S PLANNERS  
DRAWING UP A PLAN FOR ONE OF THEIR OWN RIVERS USING THE  
OTHER COUNTRY'S PLANNING METHODOLOGY AND DATA AND LEGAL  
AND INSTITUTIONAL NORMS. THE WORK IS FOCUSED ON THE  
DELAWARE AND OHIO RIVER BASINS IN THE UNITED STATES AND  
ON THE SEVERSKY DONETS BASIN IN THE USSR. FURTHER VISITS  
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ARE PLANNED IN 1974, AND A SYMPOSIUM ON RESULTS OF STUDIES  
 IN 1975.

PROTECTION AND MANAGEMENT OF LAKES AND ESTUARIES:  
 A U.S. DELEGATION LED BY DR. BUCKLEY VISITED THE USSR  
 AUGUST 14-24, 1973, TRAVELING TO MOSCOW, IRKUTSK, AND ON  
 LAKE BAIKAL, BAIKALSK, BOLSHYE KOTY, AND LISTVYANKA.  
 THE SOVIET GROUP WAS LED BY DR. A. A. ZENIN (DIRECTOR,  
 HYDROCHEMICAL INSTITUTE, HYDROMETEOROLOGICAL SERVICE).  
 THE U.S. DELEGATION WAS ABLE TO FAMILIARIZE ITSELF WITH  
 CONDITIONS ON LAKE BAIKAL. THE WORKING GROUP AGREED THAT  
 INFORMATION WOULD BE EXCHANGED IN THE FOLLOWING AREAS:  
 METHODS OF INTEGRATING INVESTIGATIONS TO PRODUCE A  
 COMPLETE UNDERSTANDING OF LAKES; METHODS OF EVALUATING  
 POPULATION LEVELS AND DYNAMICS AND RELATIONSHIPS AMONG  
 BACTERIA, PLANT AND ANIMAL ORGANISMS, AND RELATIONSHIPS  
 OF THESE PARAMETERS TO HYDROLOGIC AND HYDROCHEMICAL  
 CONDITIONS; ASSESSMENT OF POLLUTANT LEVELS IN FISH;  
 EVALUATION OF METEOROLOGICAL AND HYDROLOGICAL REGIMES  
 OF LAKES; PRINCIPLES OF OBSERVATION STATION DISTRIBUTION;  
 STUDIES OF THE DECOMPOSITION OF LIGNIN, CELLULOSE, PHENOLS,  
 ETC.; INSTRUMENTATION APPLICATIONS; METHODS OF  
 FORECASTING WATER QUALITY WITH REGARD TO POLLUTANTS;  
 POLLUTANT STANDARDS FOR EFFLUENTS OF VARIOUS INDUSTRIAL  
 PLANTS. HAVING AGREED THAT IT WAS NECESSARY TO CARRY OUT  
 INTER-COMPARISONS OF EXISTING METHODS OF ANALYSIS, THE  
 WORKING GROUP ARRANGED FOR THE U.S. DELEGATION TO SHARE  
 A SAMPLE COLLECTED NEAR BAIKALSK, WITH EACH SIDE TO

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ANALYZE FOR TRACE ELEMENTS ACCORDING TO THE METHODS IT NOW USES. THE U.S. SIDE WAS ALSO GIVEN THE OPPORTUNITY TO COLLECT WATER SAMPLES IN LAKE BAIKAL (IN SELENGA SHALLOW WATER, AT BARGUZIN BAY, AND NEAR ALCHON ISLAND) TO BE ANALYZED FOR TRACE ELEMENTS AND PRIMARY PRODUCTIVITY USING CARBON 14. FURTHER EXCHANGES OF SAMPLES ARE PLANNED. IT WAS TENTATIVELY AGREED THAT A SOVIET DELEGATION WILL VISIT THE UNITED STATES IN SEPTEMBER 1974, WITH FIELD TRIPS PLANNED TO ONE OR MORE OF THE GREAT LAKES AND TO LAKE TAHOE. SYMPOSIUMS ARE BEING CONSIDERED FOR 1975 AND 1976.

EFFECTS OF POLLUTANTS UPON AQUATIC SYSTEMS AND PERMISSIBLE LEVELS OF POLLUTION: THIS SUB-PROJECT IS BEING CONDUCTED BY DR. DONALD I. MOUNT (ENVIRONMENTAL PROTECTION AGENCY) AND DR. G. G. VINBERG (INSTITUTE OF ZOOLOGY, USSR ACADEMY OF SCIENCES). THE FIRST MEETING IS TO BE IN CONNECTION WITH A SYMPOSIUM ON THE EFFECT OF POLLUTANTS ON ECOSYSTEMS, TO BE HELD IN 1974.

STUDY OF THE PREVENTION OR TREATMENT OF WASTE DISCHARGES: THIS SUB-PROJECT IS BEING CONDUCTED BY HAROLD P. CAHILL, JR. (ENVIRONMENTAL PROTECTION AGENCY) AND S. V. YAKOVLEV (DIRECTOR, ALL-UNION RESEARCH INSTITUTE FOR WATER SUPPLY, SEWAGE, HYDRAULIC STRUCTURES AND ENGINEERING HYDROGEOLOGY VODGEO). IT WAS AGREED THAT A US DELEGATION WOULD VISIT THE USSR UNDER THIS SUB-PROJECT IN DECEMBER 1973. A RETURN SOVIET VISIT IS PLANNED IN 1974.

### III. POLLUTION RELATED TO AGRICULTURAL PRODUCTION

THE FIRST MEETING OF THE WORKING GROUP WAS HELD IN CONJUNCTION WITH THE SYMPOSIUM ON INTEGRATED PEST MANAGEMENT, AS PROVIDED FOR IN THE MEMORANDUM OF IMPLEMENTATION, WHICH WAS HELD IN KIEV SEPTEMBER 10-18, 1973. THE U.S. DELEGATION WAS LED BY DR. FRED TSCHIRLEY (U.S. DEPARTMENT OF AGRICULTURE). THE FIFTEEN U.S. SPECIALISTS PRESENTED PAPERS, AS DID THE SOVIET

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PARTICIPANTS, AND DISCUSSED MUTUAL PROBLEMS IN THIS AREA. THE U.S. SPECIALISTS EXPRESSED PARTICULAR INTEREST IN WORK BEING CONDUCTED BY THE SOVIET SPECIALISTS IN LONG-RANGE FORECASTS OF INSECT POPULATIONS. THE U.S. DELEGATION VISITED KRASNODAR, KISHINEV AND LENINGRAD IN ADDITION TO MOSCOW AND KIEV. THE FIRST SOVIET DELEGATION WAS SCHEDULED TO VISIT THE UNITED STATES NOVEMBER 11-24.

## IV. ENHANCEMENT OF THE URBAN ENVIRONMENT

THE JOINT WORKING GROUP MET IN THE UNITED STATES APRIL 16-27, 1973, FOR ITS INITIAL DISCUSSION OF COOPERATION AS PROVIDED FOR IN THE MEMORANDUM OF IMPLEMENTATION, AND THE SECOND MEETING, TO BE HELD IN THE SOVIET UNION BEGINNING NOVEMBER 19, 1973, WILL PROVIDE AN OPPORTUNITY TO MAKE SPECIFIC PLANS FOR COOPERATIVE PROJECTS. THE U.S. GROUP IS LED BY MICHAEL MOSKOW (ASSISTANT SECRETARY FOR POLICY DEVELOPMENT AND RESEARCH, DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT), THE SOVIET GROUP BY A. O. KUDRYAVTSEV (CHIEF, ADMINISTRATION FOR THE PLANNING AND CONSTRUCTION OF CITIES, STATE COMMITTEE ON CONSTRUCTION AND ARCHITECTURE). THE TWO PROJECT CHAIRMEN HAVE EXCHANGED A CONSIDERABLE AMOUNT OF DATA AND DOCUMENTATION ON VARIOUS ASPECTS OF URBAN ENVIRONMENTAL PROBLEMS. FOLLOWING THE WORKING GROUP MEETING IN WASHINGTON, D.C., THE SOVIET DELEGATION VISITED ATLANTA AND SAN FRANCISCO (THE U.S. CITIES PICKED FOR PARTICULAR STUDY UNDER THIS PROJECT, TOGETHER WITH LENINGRAD ON THE SOVIET SIDE) AND ALSO TOURED THE NEW CITIES OF COLUMBIA, MARYLAND, AND RESTON, VIRGINIA. THE SOVIET GROUP ALSO MET WITH PRIVATE FIRMS SPECIALIZING IN SOLID WASTE DISPOSAL SYSTEMS AND TECHNOLOGIES. THE PROGRAM FOR THE U.S. DELEGATION'S VISIT TO THE USSR INCLUDES MOSCOW, LENINGRAD, THE NEW TOWNS OF TOGLIATTI AND AKADEMGORODOK, AND SAMARKAND.

## V. PRESERVATION OF NATURE AND THE ORGANIZATION OF PRESERVES

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THE FIRST WORKING GROUP MEETING UNDER THIS PROJECT -- AND IN FACT THE FIRST WORKING GROUP MEETING UNDER THE ENVIRONMENTAL AGREEMENT -- TOOK PLACE IN MOSCOW JANUARY 23-31, 1973. IT DEALT WITH THE FIRST PROJECT IN AREA V, CONSERVATION OF RARE AND ENDANGERED SPECIES OF ANIMALS AND PLANTS AND GENERAL WILDLIFE CONSERVATION AND MANAGEMENT. THE U.S. GROUP WAS LED BY DR. JOSEPH LINDUSKA (U.S. DEPARTMENT OF THE INTERIOR), THE SOVIET GROUP BY DR. V. V. KRINITSKY (USSR MINISTRY OF AGRICULTURE). THE MINUTES OF THIS MEETING, SIGNED JANUARY 31, 1973, OUTLINED A SERIES OF SPECIFIC AREAS OF COOPERATION AND SET FORTH METHODS FOR REACHING AGREED GOALS. INFORMATION HAS BEEN EXCHANGED ON A NUMBER OF THESE SUB-TOPICS. SOME SUB-PROJECTS PROVED INCAPABLE OF REALIZATION ON THE DATES AGREED (FOR EXAMPLE SOVIET PARTICIPATION IN A STUDY OF THE BOWHEAD WHALE AND IN A STUDY OF MIGRATORY SWANS HAD

TO BE POSTPONED), OTHERS HAVE PROCEEDED SATISFACTORILY (FOR EXAMPLE TWO SOVIET SCIENTISTS, DR. FEDOSEEV AND MR. GOLTSEV, PARTICIPATED IN JULY-SEPTEMBER 1973 IN THE ALPHA HELIX RESEARCH EXPEDITION ON MARINE MAMMALS, OPERATED BY THE SCRIPPS INSTITUTE OF OCEANOGRAPHY IN THE BERING AND CHUKCHI SEAS).

FOLLOWING THIS FIRST WORKING GROUP MEETING, DELAYS WERE ENCOUNTERED IN COMMENCING WORK UNDER THE OTHER PROJECTS OF AREA V, TUNDRA ECOSYSTEMS AND PERMAFROST AND RESERVED AREAS. A SECOND MEETING WAS HELD OCTOBER 14-28, 1973, IN WASHINGTON, D.C., AT WHICH ALL THREE PROJECT AREAS WERE DISCUSSED SIMULTANEOUSLY. THE U.S. DELEGATION TO THIS MEETING WAS LED BY E. U. CURTIS BOHLEN (DEPUTY ASSISTANT SECRETARY FOR FISH AND WILDLIFE AND PARKS, U.S. DEPARTMENT OF THE INTERIOR), THE U.S. PROJECT CHAIRMAN, WITH THE PARTICIPATION OF DR. LINDUSKA, DR. RONALD SKOOG (DEPARTMENT OF THE INTERIOR), DR. DALE JENKINS (SMITHSONIAN INSTITUTION), FOR THE PROJECT AREAS, AND DR. LEE TALBOT (COUNCIL ON ENVIRONMENTAL

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QUALITY). DR KRINITSKY LED THE SOVIET GROUP. A REORGANIZATION OF AREA V UNDER THE GENERAL LEADERSHIP OF THE PROJECT CHAIRMEN (MR. BOHLEN ON THE U.S. SIDE AND DR. B. N. BOGDANOV (CHIEF, MAIN CONSERVATION ADMINISTRATION, USSR MINISTRY OF AGRICULTURE ON THE SOVIET SIDE) WAS AGREED UPON AS FOLLOWS: (1) WORKING GROUP FOR WILD FAUNA, FLORA AND PRESERVES: (A) SUB-GROUP ON PRESERVATION OF ENDANGERED AND THREATENED SPECIES OF FAUNA AND FLORA; (B) SUB-GROUP ON MANAGEMENT OF OTHER WILD FLORA AND FAUNA; (C) SUB-GROUP ON THE ORGANIZATION OF PRESERVES; (2) WORKING GROUP FOR EXTREME ECOSYSTEMS: (A) SUB-GROUP ON NORTHERN REGIONS ECOSYSTEMS; (B) SUB-GROUP ON ARID ECOSYSTEMS; (3) WORKING GROUP FOR MARINE MAMMALS (EXCEPT POLAR BEARS). DETAILED PLANS FOR COOPERATION UNDER THESE GROUPS AND SUB-GROUPS WERE AGREED UPON. A NUMBER OF SPECIFIC VISITS BY SCIENTISTS UNDER SUB-PROJECTS WERE AGREED UPON (E.G. THE PARTICIPATION OF DR. A. A. KISHCHINSKY AND PROFESSOR V. D. ILICHEV IN THE SWAN STUDY PROJECT OF DR. W. J. L. SLADEN OF JOHNS HOPKINS UNIVERSITY AUGUST-OCTOBER 1974). AND MEETINGS OF EXPERTS WERE PLANNED, BUILDING UPON THE USEFUL FIELD TRIPS AFFORDED THE VISITING EXPERTS THUS FAR (THE LINDUSKA DELEGATION VISITED THE VORONEZH AND OKA-TERRACE PRESERVES, THE KRINITSKY DELEGATION VISITED THE PATUXENT WILDLIFE RESEARCH CENTER, ASSATEAGUE NATIONAL SEASHORE AND CHINCOTEAGUE NATIONAL WILDLIFE REFUGES, AND A NUMBER OF PARKS AND RESERVED AREAS IN COLORADO AND UTAH).

FURTHER VISITS TO PARKS AND RESERVED AREAS ARE PROJECTED.

DESPITE SOME ORGANIZATIONAL DIFFICULTIES, STEMMING IN GOOD PART FROM THE LARGE NUMBER OF INTERESTED AGENCIES ON EACH SIDE AS WELL AS PRIVATE PARTICIPANTS, THE SPECIALISTS IN THIS FIELD BELIEVE THAT THE PROJECT IS OFF TO A GOOD START AND WILL BEAR FRUIT IN FRUITFUL COLLABORATION IN A NUMBER OF WAYS DURING THE COMING YEAR.

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ONE EXAMPLE OF FRUITFUL COLLABORATION IS THE COOPERATION ON BILATERAL AND INTERNATIONAL CONVENTIONS WHICH STEMS FROM ACTIVITY UNDER THE ENVIRONMENTAL AGREEMENT. FOR EXAMPLE, AT THIS WORKING GROUP'S FIRST MEETING, IN JANUARY 1973, THE SPECIALISTS DISCUSSED PLANS FOR THE FEBRUARY-MARCH MEETING IN WASHINGTON, D.C., TO NEGOTIATE AN INTERNATIONAL CONVENTION ON TRADE IN ENDANGERED SPECIES OF FLORA AND FAUNA, AND IN THE PROTOCOL OF JANUARY 31, 1973, THEY ENDORSED SUCH A CONVENTION. SUCH DISCUSSIONS FACILITATED U.S.-SOVIET COOPERATION AT THE NEGOTIATIONS, WHICH RESULTED IN AN INTERNATIONAL CONVENTION BEING ACCEPTED. IN THE PROTOCOL SIGNED ON OCTOBER 27, 1973, AT THE SECOND MEETING OF THE WORKING GROUP, IT WAS NOTED WITH SATISFACTION THAT THE CONVENTION HAD BEEN NEGOTIATED AND THAT THE UNITED STATES HAD ALREADY SIGNED IT. ALSO AT THE OCTOBER MEETING, CONSIDERABLE PROGRESS WAS MADE TOWARDS A BILATERAL CONVENTION ON THE CONSERVATION OF MIGRATORY BIRDS, WITH THE POSSIBILITY OF EXPANDING THE CONVENTION'S COVERAGE TO OTHER SPECIES AND TO ENDANGERED HABITATS.

## VI. MARINE POLLUTION

## 1. MARINE POLLUTION FROM SHIPPING

AT THE FIRST MEETING OF THE WORKING GROUP ON PREVENTION AND CLEAN-UP OF OIL POLLUTION IN THE MARINE ENVIRONMENT, IT WAS AGREED THAT THE WORKING GROUP SHOULD BE DIVIDED INTO TWO WORKING GROUPS, THE FIRST TO DEAL WITH MARINE POLLUTION FROM SHIPPING, THE SECOND TO DEAL WITH

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MARINE POLLUTION FROM NON-SHIPPING SOURCES. BOTH SIDES  
HAVE EXPRESSED SATISFACTION WITH THIS ARRANGEMENT.

THE WORKING GROUP ON MARINE POLLUTION FROM SHIPPING  
IS CHAIRED BY CAPTAIN S. A. WALLACE (U.S. COAST GUARD,  
DEPARTMENT OF TRANSPORTATION) AND BY V. K. DUBCHAK  
(USSR MINISTRY OF THE MERCHANT MARINE). THE FIRST  
MEETING WAS HELD IN THE UNITED STATES MAY 13-27, 1973,  
WITH THE U.S. SIDE HEADED BY CAPTAIN WALLACE AND THE  
SOVIET SIDE BY A. MOROZOV (USSR MINISTRY OF THE MERCHANT  
MARINE). THE GROUP MET IN WASHINGTON, D.C., AND  
NEW LONDON, CONNECTICUT, THEN VISITED A NUMBER OF PORT  
FACILITIES TO STUDY U.S. METHODS OF DEALING WITH OIL  
SPILLS. THE SECOND MEETING WAS HELD IN THE USSR  
AUGUST 19-SEPTEMBER 2, 1973, WITH MEETINGS IN THE ODESSA  
AREA TO STUDY SOVIET METHODS IN THIS FIELD.

CONSIDERABLE INFORMATION HAS BEEN EXCHANGED IN THIS  
PROJECT. THE U.S. SIDE FURNISHED TECHNICAL INFORMATION  
DEALING WITH ALL ASPECTS OF POLLUTION CONTROL BUT FOCUSING  
ON THE CONTAINMENT AND REMOVAL OF DISCHARGED OIL. THE  
SOVIET SIDE HAS ALSO FURNISHED TECHNICAL INFORMATION,  
A COOPERATIVE PROGRAM IN COLD-WEATHER OIL POLLUTION  
CONTAINMENT AND RECOVERY WAS PROPOSED BY THE U.S. SIDE.

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BUT COULD NOT BE AGREED UPON. FOUR PROJECTS ARE UNDER CONSIDERATION: (1) A JOINT PROGRAM TO TEST AND EVALUATE CHEMICALS FOR USE ON DISCHARGED OIL; (2) EXCHANGE OF TECHNICAL INFORMATION ON VESSEL TRAFFIC CONTROL IN PORT AREAS; (3) JOINT DEVELOPMENT OF STANDARDS AND CRITERIA FOR VESSELS AND VESSEL CONSTRUCTION; (4) TESTING CONSTRUCTION OF HIGH SEAS OIL SPILL CONTAINMENT AND RECOVERY EQUIPMENT. ANNUAL MEETINGS OF THE WORKING GROUP ARE PLANNED, AND THE NEXT MEETING IS TENTATIVELY SCHEDULED TO BE HELD IN THE UNITED STATES IN MID-1974, SINCE THIS WAS AN AREA WHERE NEITHER SIDE WAS FAMILIAR WITH WORK BEING DONE BY THE OTHER, THE SPECIALISTS BELIEVE THAT FAMILIARIZATION WITH CONDITIONS HAS BEEN VALUABLE THUS FAR, AND PROSPECTS FOR COOPERATION IN THE FUTURE ARE GOOD.

## 2. MARINE POLLUTION FROM NON-SHIPPING SOURCES

(AFTER SEPARATING FROM THE MARINE POLLUTION SHIPPING WORKING GROUP, THIS WORKING GROUP HAD SOME DIFFICULTY IN FINDING THE PROPER TITLE. IT HAS ALSO BEEN CALLED THE WORKING GROUP ON PREVENTION OF SEA AND RIVER POLLUTION DURING WELL DRILLING, EXPLOITATION OF OIL FIELDS AND PIPELINE OIL TRANSPORTATION. ITS MAIN FOCUS IS OF COURSE POLLUTION FROM OIL OPERATIONS, BUT IT IS NOT RESTRICTED TO THE MARINE ENVIRONMENT.)

A SOVIET DELEGATION COMPOSED OF V.N. SAMARSKY AND L. A. PELEVIN (MINISTRY OF THE OIL INDUSTRY OF THE USSR) VISITED THE UNITED STATES MAY 13-23, 1973. THE U.S. SIDE WAS LED BY DR. JAMES BALSLEY (U.S. GEOLOGICAL SURVEY). THE GROUP MET IN NEW LONDON, CONNECTICUT, AND METRAIRIE, LOUISIANA, AND FIELD TRIPS WERE TAKEN TO THE GULF OF MEXICO OUTER CONTINENTAL SHELF TO INSPECT DRILLING AND PRODUCING OPERATIONS. THE SECOND MEETING OF THE WORKING GROUP WAS HELD IN THE USSR SEPTEMBER 29-OCTOBER 7, 1973. THE CHAIRMEN WERE WILLIAM A. RADLINSKI (ASSOCIATE DIRECTOR, U.S. GEOLOGICAL SURVEY) AND DR. A.O.K. KARAYEV (MINISTRY OF THE OIL INDUSTRY).

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MEETINGS WERE HELD IN MOSCOW, BAKU, OKTYABRSKY AND UFA, INCLUDING TECHNICAL BRIEFINGS AND DISCUSSIONS IN THE LATTER THREE. FIELD TRIPS WERE MADE TO THE OFFSHORE OIL FIELD NEFTYANIE KAMNI IN THE CASPIAN SEA AND TUYMAZY OIL FIELD IN OKTYABRSKY.

BOTH SIDES HAVE PRESENTED BRIEFINGS AND SUPPORTIVE MATERIAL ON THE METHOD OF COLLECTION AND DISPOSAL OF PRODUCED FORMATION WATER; ON THE ORGANIZATION AND RESPONSIBILITIES OF THE GOVERNMENT AND INDUSTRY TOWARDS PROTECTION OF THE ENVIRONMENT DURING DRILLING AND PRODUCING OPERATIONS; AND ON RELATED REGULATIONS. THE U.S. SIDE FURNISHED PICTURES AND CATALOGUES DETAILING PRODUCTION SAFETY EQUIPMENT AND POLLUTION CONTAINMENT AND REMOVAL EQUIPMENT. IN THE REPORT OF THE WORKING GROUP MEETING SIGNED IN MOSCOW ON OCTOBER 7, 1973, IT WAS AGREED THAT THE MAIN TASKS OF FUTURE COOPERATION WOULD BE: (1) ORGANIZATIONAL, TECHNICAL AND TECHNOLOGICAL MEASURES AND SPECIAL TECHNICAL FACILITIES USED FOR PREVENTING MARINE POLLUTION (INCLUDING: (A) CONTROL OF SOLID PARTICLES (SUCH AS SAND) IN OIL AND GAS DRILLING AND IN EXPLOITATION OF OIL AND GAS WELLS; (B) CONTAINMENT, REMOVAL AND CLEAN-UP OF OIL SPILLS; (C) METHODS AND PROGRAMS FOR TRAINING PERSONNEL IN PROPER METHODS OF WORK; (D) PROTECTION OF OIL-FIELD EQUIPMENT AND PIPELINES FROM CORROSION; (E) WELL CONTROL AND PREVENTION OF POLLUTION FROM BLOW-OUTS); AND (2) TECHNIQUES AND TECHNOLOGY OF COLLECTING, TREATING, AND PIPELINE TRANSPORTATION OF OIL AT OFFSHORE OIL FIELDS TO PREVENT MARINE POLLUTION (INCLUDING: (A) WASTE WATER TREATMENT AND DISPOSAL; (B) MONITORING SYSTEMS FOR PIPELINE FLOW). APPROVAL OF SPECIFIC PLANS IS TO TAKE PLACE AT A WORKING GROUP MEETING TO BE HELD IN THE UNITED STATES IN MAY 1974. AT THIS TIME A SEMINAR IS PLANNED IN HOUSTON, TEXAS, ON THE AGREED TOPICS, WITH EMPHASIS

ON CURRENT INDUSTRY RESEARCH. A FURTHER MEETING IS PLANNED IN THE USSR IN SEPTEMBER 1974, WITH EMPHASIS ON PIPELINE TRANSPORTATION. (THE U.S. SIDE HAS EMPHASIZED

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ITS DESIRE TO PURSUE THE AGREEMENT IN THE MEMORANDUM OF IMPLEMENTATION TO "EXCHANGE VISITS AND INFORMATION ON PIPELINE TRANSPORT, PARTICULARLY THROUGH PERMAFROST AREAS," AND THE SOVIET SIDE HAS UNDERTAKEN TO ARRANGE THIS.) THE SCOPE OF PROBLEMS TO BE DISCUSSED BY THE WORKING GROUP HAS BEEN BROADENED TO INCLUDE ENVIRONMENTAL PROTECTION DURING THE DEVELOPMENT AND PRODUCTION OF ONSHORE OIL FIELDS.

## 3. EFFECTS OF POLLUTANTS ON MARINE ORGANISMS

THE FIRST MEETING OF THIS WORKING GROUP TOOK PLACE MAY 14-28, 1973, IN THE UNITED STATES, UNDER THE CHAIRMANSHIP OF DR. ERIC D. SCHNEIDER (DIRECTOR, NATIONAL MARINE WATER QUALITY LABORATORY, ENVIRONMENTAL PROTECTION AGENCY) AND PROFESSOR V. D. FEDOROV (MOSCOW STATE UNIVERSITY). IN ADDITION TO THE NATIONAL MARINE WATER QUALITY LABORATORY AND OTHER ENVIRONMENTAL PROTECTION AGENCY LABORATORIES, THE SOVIET GROUP VISITED FACILITIES AT THE UNIVERSITY OF RHODE ISLAND, WOODS HOLE OCEANOGRAPHIC INSTITUTE, YALE UNIVERSITY, UNIVERSITY OF MIAMI, UNIVERSITY OF WASHINGTON, AND SCRIPPS INSTITUTE OF OCEANOGRAPHY. THE GROUP HEARD DESCRIPTIONS OF THEIR WORK BY NINETY-ONE AMERICAN SCIENTISTS. IN THE MINUTES OF THIS MEETING, A LARGE NUMBER OF TOPICS WERE IDENTIFIED FOR POSSIBLE COOPERATIVE RESEARCH. THE SECOND MEETING OF THE WORKING GROUP TOOK PLACE IN THE USSR OCTOBER 14-28, 1973, WITH VISITS TO FACILITIES IN MOSCOW, LENINGRAD AND RIGA. AT THIS MEETING THE SPECIALISTS DISCUSSED FURTHER THE INITIAL MAJOR TASKS TO BE UNDERTAKEN, AND AGREED ON PLANS FOR THE COMING YEAR.

CONSIDERABLE DATA AND LITERATURE HAS BEEN FURNISHED TO THE SOVIET SPECIALISTS, INCLUDING CATALOGUES OF EQUIPMENT AVAILABLE THROUGH U.S. COMMERCIAL FIRMS IN THIS FIELD. IT IS PLANNED FOR EACH SIDE TO DESIGNATE A CENTRAL RECEIVING POINT FOR RECEPTION AND DISTRIBUTION OF INFORMATION ON A REGULAR BASIS. PLANS HAVE BEEN MADE FOR THE FOLLOWING FORMS OF COOPERATION: EXCHANGE OF JUNIOR SCIENTISTS FOR PERIODS OF THREE TO TEN MONTHS;

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EXCHANGE OF ESTABLISHED SCIENTISTS FOR LECTURE SERIES,  
TWO WEEKS TO ONE MONTH; EXCHANGE OF CONSULTANTS FOR  
TWO WEEKS TO ONE MONTH; ADOPTION OF JOINT RESEARCH  
PROJECTS; SYMPOSIUMS TO DISCUSS PROJECT RESULTS. A GOAL

OF FIFTY MAN-MONTHS OF EXCHANGE PER YEAR WAS AGREED UPON.  
ONE SOVIET SCIENTIST IS SPENDING THE ACADEMIC YEAR 1973-4  
AT NEW YORK UNIVERSITY STUDYING IN THIS FIELD.

# VII. BIOLOGICAL AND GENETIC CONSEQUENCES OF ENVIRONMENTAL POLLUTION

## 1. COMPREHENSIVE ANALYSIS OF THE ENVIRONMENT

DURING HIS VISIT TO THE UNITED STATES JULY 1-15,  
1973, THE SOVIET PROJECT CHAIRMAN, DR. Y. A. IZRAEL  
(HYDROMETEOROLOGICAL SERVICE), COORDINATOR OF THE  
US-USSR ENVIRONMENTAL AGREEMENT, HELD PRELIMINARY  
DISCUSSIONS WITH THE U.S. CHAIRMAN, DR. L. D. ATTAWAY  
(ENVIRONMENTAL PROTECTION AGENCY), AND HIS WORKING GROUP.  
GENERAL AGREEMENT WAS REACHED ON THE CONTENT OF A  
SYMPOSIUM ON THIS SUBJECT TO BE HELD IN THE USSR IN  
ACCORDANCE WITH THE MEMORANDUM OF IMPLEMENTATION.  
THE EXACT DATES OF THE SYMPOSIUM, IN LATE 1973 OR EARLY  
1974, WERE TO BE AGREED UPON LATER. IT WAS AGREED THAT THE  
STUDY SHOULD FOCUS ON COMPREHENSIVE ENVIRONMENTAL  
MANAGEMENT OF AN IDENTIFIED REGION, DELINEATING  
PERMISSIBLE STRESS FACTORS, LOADINGS AND INTERACTIONS  
BETWEEN MAN AND HIS ENVIRONMENT, TAKING INTO ACCOUNT:  
(A) MUNICIPAL, INDUSTRIAL AND AGRICULTURAL ACTIVITIES OF  
MAN; (B) DEVELOPMENT OF CRITERIA TO FORM A BASIS FOR

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STANDARDS AND REGULATORY PROGRAMS; (C) DEVELOPMENT OF CONTROL TECHNIQUES INCLUDING DETERMINATION OF ASSOCIATED COSTS AND BENEFITS; (D) DETERMINATION OF ASSOCIATED DAMAGE FUNCTIONS; (E) SETTING STANDARDS (INCLUDING PROVISION FOR VARIANCES) TO PERMIT MAXIMUM INDUSTRIAL DEVELOPMENT CONSISTENT WITH ACCEPTABLE LEVELS OF ENVIRONMENTAL STRESS. IT WAS FURTHER AGREED THAT EACH SIDE WOULD PREPARE PAPERS FOR PRESENTATION AT THIS SYMPOSIUM. DURING HIS U.S. VISIT DR. IZRAEL HAD A FIELD TRIP, RELATED TO THE SUBJECT MATTER OF THE SYMPOSIUM, CONCENTRATING ON U.S. WORK IN WATER POLLUTION CONTROL TECHNOLOGY.

## 2. BIOLOGICAL AND GENETIC EFFECTS OF POLLUTANTS

THE SOVIET PROJECT CHAIRMAN, ACADEMICIAN N. P. DUBININ (DIRECTOR, INSTITUTE OF GENERAL GENETICS, USSR ACADEMY OF SCIENCES), LED A DELEGATION TO THE UNITED STATES JUNE 3-17, 1973, TO REVIEW ONGOING WORK IN THREE OF THE FIVE AREAS SPECIFIED IN THE MEMORANDUM OF IMPLEMENTATION, EPIDEMIOLOGY, MUTAGENESIS, AND HEAVY METALS. THEY MET WITH THE U.S. WORKING GROUP LED BY DR. CARL M. SHY (ENVIRONMENTAL PROTECTION AGENCY), FOR EPIDEMIOLOGY, AND DR. DAVID P. RALL (NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES, DEPARTMENT OF HEALTH, EDUCATION AND WELFARE), FOR MUTAGENESIS AND HEAVY METALS. THE GROUP VISITED THOUSAND OAKS AND RIVERSIDE, CALIFORNIA, AND THE UNIVERSITY OF CINCINNATI, IN ADDITION TO THE SITE OF THE WORKING GROUP MEETING, RESEARCH TRIANGLE PARK, NORTH CAROLINA. PLANS FOR PURSUING COOPERATION IN THE

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FIVE AREAS OF THE PROJECT WERE DISCUSSED AND AGREED UPON. THE U.S. CHAIRMEN WERE INVITED TO VISIT THE USSR IN DECEMBER 1973 TO REVIEW WORK IN THE USSR AND TO FURTHER DEFINE PLANS FOR COOPERATION (THE VISIT TO COINCIDE WITH THE SOVIET HYDROMETEOROLOGICAL CONGRESS, AT WHICH DR. RALL WAS INVITED TO PRESENT A PAPER).

PLANS UNDER THE FIVE AREAS OF THE PROJECT INCLUDED THE FOLLOWING:

MUTAGENESIS: THE TWO MAIN AREAS OF INTEREST ARE ASSAY SYSTEMS FOR (1) IMMEDIATE EVALUATION TO BE USED IN POPULATION MONITORING AND (2) SCREENING ENVIRONMENTAL POLLUTANTS FOR GENETIC ACTIVITY (INITIALLY IN HUMAN CELLS AND ULTIMATELY IN OTHER MAMMALIAN AND SUBMAMMALIAN CELLS). A GROUP OF U.S. MUTAGENECISTS WAS INVITED TO VISIT THE USSR, POSSIBLY IN EARLY 1974, AND DR. DUBININ WAS INVITED TO ATTEND TWO CONGRESSES IN THE UNITED STATES. A SOVIET SPECIALIST (DR. PASHCHIN, INSTITUTE OF GENERAL GENETICS) WAS INVITED TO WORK IN THE MUTAGENESIS LABORATORIES OF THE NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES FOR ONE TO TWO MONTHS.

EXTRAPOLATION OF ANIMAL TOXICOLOGICAL TESTS TO MAN: IT WAS AGREED THAT WORK IN THIS AREA WOULD PROCEED UNDER THE US-USSR HEALTH AGREEMENT.

EPIDEMIOLOGY: PLANS FOR THIS AREA, TO BE LED BY DR. SHY AND BY DR. E. I. KORENEVSKAYA (INSTITUTE OF GENERAL AND COMMUNAL HYGIENE, USSR ACADEMY OF MEDICAL

SCIENCES), WILL BE DISCUSSED FURTHER DURING THE CHAIRMEN'S VISIT TO THE USSR.

RADIOACTIVITY: THIS WILL BE DISCUSSED FURTHER DURING THE CHAIRMEN'S VISIT TO THE USSR, BUT NO SPECIFIC PLANS HAVE BEEN MADE FOR A COOPERATIVE PROGRAM IN THIS AREA.

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HEAVY METALS: FOLLOWING REVIEW OF U.S. WORK ON CADMIUM, MERCURY, AND LEAD, COOPERATIVE WORK ON CADMIUM WAS AGREED UPON AS AN INITIAL FOCUS, WITH LITERATURE TO BE EXCHANGED. DR. RAYMOND SUSKIND (UNIVERSITY OF CINCINNATI), WHO IS TO HAVE MAJOR RESPONSIBILITY FOR THIS AREA UNDER DR. RALL AND DR. SIDORENKO (INSTITUTE OF GENERAL AND COMMUNAL HYGIENE), WAS INVITED TO ACCOMPANY THE PROJECT LEADERS TO THE USSR FOR DISCUSSION OF SPECIFIC PLANS.

## VIII. INFLUENCE OF ENVIRONMENTAL CHANGES ON CLIMATE

A PRELIMINARY MEETING OF THIS WORKING GROUP WAS HELD AUGUST 27-29, 1973, IN WASHINGTON, D.C. THE SOVIET SIDE WAS REPRESENTED BY PROFESSOR Y. P. BORISENKOV (DIRECTOR, MAIN GEOPHYSICAL OBSERVATORY) AND DR. B. I. SAZONOV (MAIN GEOPHYSICAL OBSERVATORY), WHO MET WITH THE U.S. WORKING GROUP HEADED BY DR. WILMOT N. HESS (DIRECTOR, ENVIRONMENTAL RESEARCH LABORATORIES, NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION). IT WAS AGREED THAT THE FIRST FULL MEETING OF THE WORKING GROUP WOULD BE HELD IN LENINGRAD IN THE SPRING OF 1974, WITH LITERATURE ON THE SUBJECTS TO BE DISCUSSED TO BE EXCHANGED PRIOR TO THE MEETING.

AT THE PRELIMINARY MEETING IT WAS AGREED TO FORM SUB-GROUPS ON THE FIVE SUBJECTS OF STUDY SPECIFIC IN THE MEMORANDUM OF IMPLEMENTATION, AND TO FORM TWO ADDITIONAL SUB-GROUPS WITH THE APPROVAL OF THE JOINT COMMITTEE. THESE SUB-GROUPS ARE: (1) EFFECT OF CHANGING LEVELS OF ATMOSPHERIC CONSTITUENTS ON CLIMATE (FIRST AREA OF STUDY, INVESTIGATION OF THE OPTICAL PROPERTIES OF ATMOSPHERIC DUST PARTICLES); (2) MONITORING ATMOSPHERIC CONSTITUENTS THAT MIGHT MODIFY CLIMATE (FIRST AREA OF STUDY, MEASUREMENTS OF TRACE MATERIALS IN "CLEAN AIR" AND SUGGESTIONS ON THE ORGANIZATION OF A GLOBAL NETWORK OF STATIONS TO DETERMINE GLOBAL BACKGROUND LEVELS, THEIR GEOGRAPHICAL VARIABILITY AND LONG-TERM TRENDS); (3) CLIMATE MODELING (FIRST AREA OF STUDY, NUMERICAL MODELS

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OF THE ATMOSPHERE AND/OR OCEANS CAPABLE OF PREDICTING THE

DISPERSIVE PROPERTIES OF THE GEOPHYSICAL FLUID MEDIA AND THE SECONDARY REACTIONS SUCH AS CLIMATIC VARIABILITY OR SENSITIVITY TO CHANGES IN ATMOSPHERIC CONSTITUENTS OR BOUNDARY CONDITIONS;

(4) COOPERATION IN POLAR RESEARCH (FIRST AREA OF STUDY, INVESTIGATION OF THE INFLUENCE OF THE POLAR REGIONS IN BOTH HEMISPHERES ON THE FORMATION OF THE WEATHER AND CLIMATE OF THE PLANET);

(5) EFFECTS OF CONTAMINATION OF THE UPPER ATMOSPHERE ON CLIMATE (FIRST AREA OF STUDY, ALTERATIONS OF THE UPPER ATMOSPHERE AND STRATOSPHERE BY HIGH-FLYING AIRPLANES);

(6) NEW AREA: DOCUMENTATION ON CLIMATIC VARIABILITY (SINCE AN ESSENTIAL ELEMENT IN UNDERSTANDING THE SENSITIVITY OF CLIMATE TO ENVIRONMENTAL CHANGES IS KNOWLEDGE OF CLIMATIC VARIATIONS OF THE PAST, THIS SUB-GROUP WOULD GATHER SPECIALISTS IN THE DEVELOPING FIELD OF CLIMATOGRAPHY TO SEEK TO ESTABLISH THE CHARACTER AND GEOGRAPHIC EXTENT OF PAST CLIMATIC VARIATIONS;

(7) NEW AREA: SOLAR INFLUENCES ON CLIMATE VARIATIONS (STUDY OF EMPIRICAL FINDINGS AND POSSIBLE PHYSICAL MECHANISMS INVOLVED IN INTERACTIONS BETWEEN SOLAR ACTIVITY AND METEOROLOGICAL PHENOMENA).

UNDER THESE SUB-GROUPS, EXCHANGE OF INDIVIDUAL SCIENTISTS FOR PERIODS OF THREE TO TWELVE MONTHS, IN ADDITION TO EXCHANGES OF VISITS BY WORKING GROUP MEMBERS, WOULD BE ENCOURAGED; AND THE EXCHANGE OF DATA AND SCIENTIFIC RESULTS AND THE INTERCALIBRATION OF INSTRUMENTS AND METHODS OF OBSERVATION IS PLANNED IN APPROPRIATE SUB-GROUPS. ALTHOUGH THIS PROJECT HAD BEEN LATE IN GETTING STARTED (WITH THE EXCEPTION OF SUB-GROUP 4, WHICH IS BASED ON ALREADY EXISTING PROGRAMS OF COOPERATION AND IS NOT CONFINED TO THE ENVIRONMENTAL AGREEMENT), THE PARTICIPANTS IN THE PRELIMINARY MEETING AGREED THAT PROSPECTS FOR COOPERATION APPEAR GOOD.

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# IX. EARTHQUAKE PREDICTION

THE JOINT WORKING GROUP HAS HELD TWO MEETINGS AND  
HAS ADOPTED A DETAILED PROGRAM OF COOPERATION. THE

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SOVIET CHAIRMAN, ACADEMICIAN M. A. SADOVSKY (DIRECTOR, INSTITUTE OF EARTH PHYSICS, USSR ACADEMY OF SCIENCES), LED A DELEGATION TO THE UNITED STATES APRIL 22-MAY 6, 1973, VISITING THE NATIONAL CENTER FOR EARTHQUAKE RESEARCH, MENLO PARK, CALIFORNIA, AND LABORATORIES AT THE UNIVERSITY OF CALIFORNIA (BERKELEY), CAL TECH (PASADENA),

UNIVERSITY OF CALIFORNIA (LOS ANGELES), MASSACHUSETTS INSTITUTE OF TECHNOLOGY, COLUMBIA UNIVERSITY, AND THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION IN SAN FRANCISCO. THE U.S. CHAIRMAN, DR. ROBERT E. WALLACE (CHIEF, NATIONAL CENTER FOR EARTHQUAKE RESEARCH, U.S. GEOLOGICAL SURVEY), LED A DELEGATION TO THE USSR SEPTEMBER 28-OCTOBER 14, 1973, VISITING SOVIET INSTALLATIONS IN MOSCOW, TASHKENT, SAMARKAND, DUSHANBE AND GARM. A PROTOCOL SIGNED ON OCTOBER 12, SETTING FORTH THE GOAL OF THE PROGRAM AS "INVESTIGATIONS TO REDUCE THE HAZARDS FROM EARTHQUAKES, PRIMARILY THROUGH EARTHQUAKE PREDICTION," SET UP FOUR SUB-PROJECTS AND SET FORTH A GOAL OF FORTY-EIGHT MAN-MONTHS OF EXCHANGES BY SCIENTISTS DURING THE NEXT TWO-YEAR PERIOD. PLANS WERE MADE FOR THE EXCHANGE OF LITERATURE AND TECHNICAL DATA, AND A SYMPOSIUM WAS AGREED UPON FOR LATE 1975.

THE FOUR SUB-PROJECTS ARE AS FOLLOWS:

- (1) FIELD RESEARCH ON EARTHQUAKE PREDICTION:

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THE MAIN TASK IS AN ANALYSIS OF THE SEISMO-GEOLOGICAL SITUATION IN CONNECTION WITH PRECURSORS FOR DEVELOPING METHODS OF PREDICTION OF EARTHQUAKES IN THE SAN ANDREAS FAULT REGION (CALIFORNIA, U.S.) AND THE GARM-DUSHANBE REGION (USSR). THE PROGRAM INCLUDES: STANDARDIZATION; EXPERIMENTAL WORK IN CALIFORNIA AND GARM-DUSHANBE; JOINT OBSERVATIONS; GEODETIC INVESTIGATIONS; MUTUAL UTILIZATION OF MODERN GEODIMETERS; STUDIES ON ELECTRIC SOUNDING, ETC.); STUDY OF THE STRUCTURE AND PROPERTIES OF THE CRUST AND UPPER MANTLE AND OF THE RELATIONSHIP OF EARTHQUAKES TO THESE; GEOLOGICAL STUDIES,

(2) LABORATORY AND THEORETICAL STUDIES OF THE PHYSICS OF THE EARTHQUAKE SOURCE: THE MAIN TASK IS TO STUDY THE PHYSICS OF THE EARTHQUAKE SOURCE BOTH IN THE LABORATORY AND BY THEORETICAL METHODS TO GAIN BETTER UNDERSTANDING OF THE PREMONITORY PHENOMENA OF EARTHQUAKES AND WHY THEY SIGNAL THE APPROACH OF EARTHQUAKES. STUDIES WILL FOCUS ON: AN IMPROVED UNDERSTANDING OF THE ROLE OF CRACK FORMATION IN CAUSING EARTHQUAKE PRECURSORS; DEVELOPMENT OF METHODS FOR LABORATORY MODELLING OF THE EARTHQUAKE PROCESS; COMPUTATION OF SPECTRA OF EARTHQUAKES FOR DIFFERENT SOURCE MODELS.

(3) MATHEMATICAL AND COMPUTATIONAL PREDICTION OF LOCATIONS OF STRONG EARTHQUAKES, SEISMICITY AND ESTIMATION OF SEISMIC RISK: THE GOAL IS TO IMPROVE THE METHODS OF PREDICTION OF THE LOCATIONS OF STRONG EARTHQUAKES, TO DISCOVER REGULARITIES IN THEIR OCCURENCE, AND TO PROVIDE THE BASIS FOR OPTIMIZATION OF SEISMIC ZONING AND FOR RESEARCH IN PREDICTION AND CONTROL.

(4) ENGINEERING SEISMOLOGICAL STUDIES: THE MAIN TASK IS THE DEVELOPMENT OF ENGINEERING CRITERIA FOR  
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SEISMIC RESISTANCE OF STRUCTURES DURING STRONG  
EARTHQUAKES, TAKING INTO CONSIDERATION SOIL CONDITIONS.

THE WORKING GROUP AGREED THAT WORK ON THE SECOND  
PORTION OF THE PROJECT AS SET FORTH IN THE MEMORANDUM  
OF IMPLEMENTATION, INTEGRATION OF US-USSR TSUNAMI  
WARNING SYSTEMS, WOULD NOT BE PURSUED AT THE PRESENT  
TIME UNDER THE ENVIRONMENTAL AGREEMENT.

X. ARCTIC AND SUBARCTIC ECOLOGICAL SYSTEMS

IT WAS AGREED IN THE MEMORANDUM OF IMPLEMENTATION

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TO UNDERTAKE A COOPERATIVE PROGRAM INVOLVING ARCTIC  
 AND SUBARCTIC AREAS THROUGH PROJECTS UNDER OTHER AREAS  
 OF THE AGREEMENT. THE VIEW OF THE U.S. SIDE IS THAT  
 PROGRESS IN THIS AREA HAS BEEN UNSATISFACTORY DURING THE  
 FIRST YEAR OF COOPERATION UNDER THE ENVIRONMENTAL  
 AGREEMENT.

# XI. LEGAL AND ADMINISTRATIVE MEASURES FOR PROTECTING ENVIRONMENTAL QUALITY

A DELEGATION LED BY THE SOVIET PROJECT CHAIRMAN,  
 DR. O. S. KOLBASOV (INSTITUTE OF STATE AND LAW, USSR  
 ACADEMY OF SCIENCES), VISITED THE UNITED STATES  
 MAY 6-20, 1973. THE DELEGATION MET IN WASHINGTON, D.C.,  
 MAY 8-11 WITH THE U.S. WORKING GROUP LED BY THE U.S.  
 PROJECT CHAIRMAN, TIMOTHY ATKESON (COUNCIL ON  
 ENVIRONMENTAL QUALITY). THE SOVIET GROUP ACQUAINTED  
 THEMSELVES WITH THE ACTIVITIES OF U.S. GOVERNMENTAL  
 AGENCIES AND PRIVATE ORGANIZATIONS INVOLVED IN  
 ENVIRONMENTAL PROTECTION IN WASHINGTON, SAN FRANCISCO,  
 LOS ANGELES, BOSTON AND NEW YORK. AT THE WORKING GROUP  
 MEETING PAPERS WERE PRESENTED, INFORMATION WAS EXCHANGED  
 ON THE ADMINISTRATIVE ORGANIZATION IN EACH COUNTRY FOR  
 DEALING WITH ENVIRONMENTAL PROBLEMS, AND A DISCUSSION

WAS CONDUCTED ON THE BASIC LEGAL PROBLEMS IN BOTH  
 COUNTRIES IN THE AREA OF ENVIRONMENTAL PROTECTION.

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CONSIDERABLE LITERATURE ON THE LEGAL ASPECTS OF ENVIRONMENTAL PROTECTION HAS BEEN EXCHANGED. THE WORKING GROUP AGREED UPON THE MAJOR AREAS FOR FUTURE STUDY, AS FOLLOWS: (1) QUESTIONS OF DEVELOPING LEGISLATION; (2) PROCEDURES FOR ANALYZING THE ENVIRONMENTAL IMPACT OF MAJOR GOVERNMENTAL DECISIONS; (3) PROCEDURES FOR REACHING DECISIONS ON DEVELOPMENT OF THE MOST IMPORTANT AREAS OF INDUSTRIAL PRODUCTION AFFECTING THE ENVIRONMENT; (4) COMPARATIVE STUDY OF THE SYSTEM AND METHODS OF GOVERNMENTAL SUPERVISION OF IMPLEMENTATION OF LEGAL REQUIREMENTS FOR ENVIRONMENTAL PROTECTION; (5) EXAMINATION OF FORMS OF PARTICIPATION BY THE PUBLIC IN RESOLVING PROBLEMS OF ENVIRONMENTAL PROTECTION (E.G. ACTIVITIES OF MASS MEMBERSHIP ORGANIZATIONS IN BOTH COUNTRIES); (6) EXCHANGE OF INFORMATION ON LEGAL MEASURES AND MECHANISMS AND THE SYSTEM OF LEGAL RESPONSIBILITY IN THE AREA OF ENVIRONMENTAL PROTECTION, INCLUDING SPECIFIC INDIVIDUAL COMPONENTS OF THE ENVIRONMENT (E.G. LAND USE, WATER LAW). IT WAS AGREED THAT LONG-TERM STAYS BY LEGAL SCHOLARS WOULD BE ARRANGED, AND A SOVIET SCHOLAR WAS INVITED TO ATTEND THE WOODROW WILSON CENTER IN WASHINGTON, D.C., FOR THE ACADEMIC YEAR 1974-5, WITH A RECIPROCAL INVITATION FOR A U.S. SCHOLAR.

THE POSSIBILITY WAS BEING EXPLORED FOR FACILITATING EXCHANGES BETWEEN MASS-MEMBERSHIP ORGANIZATIONS (E.G. THE SIERRA CLUB, NATIONAL WILDLIFE FEDERATION AND AUDUBON SOCIETY IN THE UNITED STATES AND THE ALL-RUSSIAN SOCIETY FOR NATURE PROTECTION IN THE USSR).

A RETURN VISIT OF U.S. SPECIALISTS IS PLANNED FOR MAY 1974.

GENERAL

COMMUNICATIONS HAVE BEEN MAINTAINED THROUGHOUT THE YEAR BETWEEN THE U.S. CHAIRMAN OF THE JOINT COMMITTEE, RUSSELL E. TRAIN, AND THE SOVIET CHAIRMAN AND COORDINATOR, ACADEMICIAN E. K. FEDOROV AND

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DR. YURI A. IZRAEL, AND THEIR STAFFS, IN DECEMBER 1972,  
DURING THE COURSE OF A VISIT TO THE UNITED STATES,  
ACADEMICIAN FEDOROV MET WITH MR. TRAIN IN WASHINGTON, D.C.,  
TO DISCUSS EARLY STEPS TOWARDS FULFILLING THE

MEMORANDUM OF IMPLEMENTATION, ALSO IN DECEMBER 1972,  
DR. LEE TALBOT (COUNCIL ON ENVIRONMENTAL QUALITY)  
VISITED MOSCOW ON BEHALF OF MR. TRAIN AND MADE  
DETAILED PLANS WITH DR. IZRAEL FOR MEETINGS AND OTHER  
ACTIVITY IN 1973, IN JULY 1973, DR. IZRAEL LED A  
DELEGATION TO THE UNITED STATES TO DISCUSS PROGRESS  
UNDER THE AGREEMENT TO DATE AND TO MAKE GENERAL PLANS  
FOR IMPLEMENTATION PRIOR TO THE SECOND JOINT COMMITTEE  
MEETING.

IT IS NOTEWORTHY THAT DURING THE YEAR WORKING  
GROUPS FOR EVERY PROJECT ESTABLISHED UNDER THE  
AGREEMENT AND THE MEMORANDUM OF IMPLEMENTATION HAVE  
MET AT LEAST ONCE, AND IN MANY CASES MORE THAN ONCE,  
AND EVERY PROJECT CHAIRMAN HAS MET WITH HIS OPPOSITE  
NUMBER, IN SOME INSTANCES ON SEVERAL OCCASIONS. THIS  
ESTABLISHMENT OF REGULAR TIES BETWEEN THOSE WITH  
ENVIRONMENTAL RESPONSIBILITIES IN BOTH COUNTRIES IS  
ONE OF THE MAJOR ACCOMPLISHMENTS OF THE PROGRAM  
DURING ITS FIRST YEAR. KISSINGER

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